

What is claimed is:

1. A planetary gear unit (7) in an electrically operated brake for reducing the rotational speed from a drive shaft (4) of an electric motor (3) to an outgoing rotating means (26), which transmits a brake applying rotational movement to the brake, comprising

    a first planet wheel (19) between a sun wheel gearing (18) on an ingoing first shaft (16) and a first internal gearing (20) in a housing (15) of the unit (7),

    a crank arm (21), on which the first planet wheel (19) is rotationally arranged and which is rigidly connected to a second shaft (22) coaxial with the first shaft,

    at least one second planet wheel (24) between a second sun wheel gearing (23) on the second shaft (22) and a second internal gearing (25) in the housing (15) of the unit (7), and

    an outgoing gear (26), which is coaxial with the first and second shafts (16, 22) and to which the at least one second planet wheel (24) is rotatably connected, characterized in that the first and second shafts (16, 22) are journalled in relation to each other by means of a radial bearing (16') and in that the outgoing gear (26) is journalled on the second shaft (22) by means of radial bearings (26').

2. A unit according to claim 1, characterized in that the first planet wheel (19) is rotationally arranged on a pin (21') on the crank arm (21) over a bearing.

3. A unit according to claim 1, characterized in that three second planet wheels (24) are equidistantly distributed between the second sun wheel gearing (23) and the second internal gearing (25).

4. A unit according to claim 1, characterized in that the outgoing gear (26) is provided with at least one pin (28, 29) for the second planet wheel (24).

5. A unit according to claim 4, characterized in that the pin comprises a screw (28) and a sleeve (29) and that the second planet wheel (24) is journaled on the sleeve by means of a bearing (30).

6. A unit according to any of the preceding claims, characterized in that the dimensioning of the different members in the gear unit is such that the rotational speed reduction in each of the two stages of the unit is in the order of 1:4 - 1:6, the first stage comprising the first shaft (16), the first planet wheel (19), and the crank arm (21), and the second stage comprising the second shaft (22), the second planet wheels (24), and the outgoing gear (26).